FIG. 1A

```
        10          30          50
CCTGAAGGAGAGAGCAGGGAGAGAGAGGAGGACAGTGGCCAGAGAGGGCTCTGGCCACTGGGAGG

        70          90         110
GACGCTCTTCTTCCTGCCCAGGGTCCCTGGGCCGATGGGCATCACGCAGAAGAATGCCGAG

       130         150         170
AGAAGCAGCCTTTGAGAAGGGAAGTCACTATCCCCAGAGCCCAGACTGAGCGGATGGAGTT
                                                           M  E  L

       190         210         230
GAGGAAGTACGGCCCTGGAAGACTGGCGGGGACTGGTTATAGGAGGAGCTGCTCAGAGTAA
R  K  Y  G  P  G  R  L  A  G  T  V  I  G  G  A  A  Q  S  K

       250         270         290
ATCACAGACTAAATCAGATTCAATCACAAAAGAGTTCCTGCCAGCCTTTACACAGCCCC
S  Q  T  K  S  D  S  I  T  K  E  F  F  L  P  G  L  Y  T  A  P

       310         330         350
TTCCTCCCCGTTCCCGCCCCTCACAGGTGAGTGACCACCAAGTGCTAAATGACGCCGAGGT
S  S  F  P  P  S  Q  V  S  D  H  Q  V  L  N  D  A  E  V

       370         390         410
TGCCGCCCTCCTGGAGAACTTCAGCTCTTCCTATGACTATGGAGAAAACGAGAGTGACTC
A  A  L  E  N  F  S  S  S  Y  D  Y  G  E  N  E  S  D  S

       430         450         470
GTGCTGTACCTCCCCGCCCTGCCCACAGGACTTCAGCCTGAACTTCGACCGGGCCTTCCT
C  C  T  S  P  P  C  P  Q  D  F  S  L  N  F  D  R  A  F  L

       490         510         530
```

MATCH WITH FIG. 1B

FIG. 1B

MATCH WITH FIG. 1A

```
GCCAGCCCTCAACAGCCTCCTCTTTCTGCTGGGGCTGCTGGGGCAACGGCGGTGGCAGC
 P   A   L   N   S   L   F   F   L   L   G   L   L   G   N   G   A   V   A   A
                550                 570                 590

CGTGCTGCTGAGCCGGCGGACAGCCCTGAGCAGCACCGACACCTTCCTGCTCCACCTAGC
 V   L   L   S   R   R   T   A   L   S   S   T   D   T   F   L   L   H   L   A
                610                 630                 650

TGTAGCAGACACGCTGCTGGTGCTGACACTGCCGCTCTGGGCAGTGGACGCTGCCGTCCA
 V   A   D   T   L   L   V   L   T   L   P   L   W   A   V   D   A   A   V   Q
                670                 690                 710

GTGGGTCTTTGGCTCTGGCCTCTGCAAAGTGGCAGGTGCCCTCTTCAACATCAACTTCTA
 W   V   F   G   S   G   L   C   K   V   A   G   A   L   F   N   I   N   F   Y
                730                 750                 770

CGCCAGGAGCCCTCCTGCCTGGCCTGCCATCAGCTTTGACCGCTACCTGAACATAGTTCATGC
 A   G   A   L   L   L   A   C   I   S   F   D   R   Y   L   N   I   V   H   A
                790                 810                 830

CACCCAGCTCTACCGCCGCCGGGGCCCCGGCCCCGCCGCGTGACCCTGACCTGCCTGGCTGTCTG
 T   Q   L   Y   R   R   R   G   P   P   A   R   V   T   L   T   C   L   A   V   W
                850                 870                 890

GGGGCTGCTCTGCTTTTCGCCCTCGTTTCGCCCTCCCAGACTTCATCTTCCTGTCGGCCCACGACGA
 G   L   C   L   L   F   A   L   P   D   F   F   I   F   L   S   A   H   H   D   E
                910                 930                 950

GCGCCTCAACGCCACCCACTGCCAATACAACTTCCCACAGGTGGCCGGCCGCACGGCTCTGCG
 R   L   N   A   T   H   C   Q   Y   N   F   P   Q   V   G   R   T   A   L   R
```

MATCH WITH FIG. 1C

FIG. IC

MATCH WITH FIG. IB

```
         970                990              1010
GGTGCTGCAGCTGGTGGGCTGGCTGGCTTTCTGCTGCCCCTGCTGGTCATGGCCTACTGCTATGC
 V   L   Q   L   V   A   G   F   L   L   P   L   L   V   M   A   Y   C   Y   A

        1030              1050              1070
CCACATCCTGGCCGTGCTGCTGGTTTCCAGGGGCCAGCGGCGGCTGCGGGCCATGCGGCT
 H   I   L   A   V   L   L   V   S   R   G   Q   R   R   L   R   A   M   R   L

        1090              1110              1130
GGTGGTGGTGTCGTGGTGGCCCTTGCCCTCTGCTGGACCCCCTATCACCTGGTGGTGCT
 V   V   V   V   A   F   A   L   C   W   T   P   Y   H   L   V   V   L

        1150              1170              1190
GGTGGACATCCTCATGGACCTGGGCGCCTTGGCCCGCAACTGTGGCCGAGAAAGCAGGGT
 V   D   I   L   M   D   L   G   A   L   A   R   N   C   G   R   E   S   R   V

        1210              1230              1250
AGACGTGGCCAAGTCGGTCACCTCAGGCGTACATGCACTGCTGCAACCCGCT
 D   V   A   K   S   V   T   S   G   L   G   Y   M   H   C   C   L   N   P   L

        1270              1290              1310
GCTCTATGCCTTTGTAGGGGTCAAGTTCCGGGAGCGGATGTGGATGCTGCTCTTGCGCCT
 L   Y   A   F   V   G   V   K   F   R   E   R   M   W   M   L   L   L   R   L
```

MATCH WITH FIG. ID

SUBSTITUTE SHEET (RULE 26)

MATCH WITH FIG. IC

FIG. ID

```
                                    1350                              1370
GGGCTGCCCAACCAGAGAGAGGGCTCCAGAGGCAGCCATCGTCTTCCCGCCGGGATTCATC
 G   P   N   Q   R   G   L   Q   R   Q   P   S   S   S   R   R   D   S   S
          1390                              1410                     1430
CTGGTCTGAGACCTTCAGAGGCCTCCTACTCGGGCTTGTGAGGCCGAATCCGGGCTCCCC
 W   S   E   T   S   E   A   S   Y   S   G   L   *
          1450                              1470                     1490
TTTCGGCCCACAGTCTGACTTCCCCCGGCCATTCCCAGGCTCCCCTCCCTCTGCCGGCTCTGG
          1510                              1530                     1550
CTCTCCCCAATATCCTGCGTCCCGGGACTCACTGGCCAGCCCCACCACCAGGTCTCCC
          1570                              1590                     1610
GGGAAGCCACCCTCCCAGCTCTGAGGACTGCACCATTGCTGCTCCTTAGCTGCCAAGCCC
          1630                              1650                     1670
CATCCTCGCGCCCGAGGTGGCTGCCTGGAGCCCCACTGCCCTTCTCATTTGGAAACTAAA
          1690                              1710                     1730
ACTTCATCTTCCCCAAGTGCGGGAGTACAAGGCATGGCCGTAGAGGGTGCTGCCCCATGA
          1750                              1770                     1790
AGCCACAGCCCAGGCCTCCAGCTCAGCAGTGACTGTGGCCATGGTCCCCAAGACCTCTAT
          1810                              1830                     1850
ATTTGGTCTTTTATTTTTATGTCTAAAATCCTGCTTAAAACTTTTCAATAAACAAGATCG
          1870
TCAGGAAAAAAAAA
```

FIG. 2A

```
 54  DHQVLNDAEVAALLENFSSSYDYGENESDSCCTSPPCPQDFSLNFDRAFL  103
  2  .ESDSFEDFWKGEDLSNYSYSSTLPPFLLDAAPCEPE......SLEINKYFV   46

104  PALNSLLFLLGLLGNGAVAAVLLSRRTALSSTDTFLLHLAVADTLLVLTL  153
 47  .VIIYALVFLLSLLGNSLVMLVILYSRVGRSVTDVYLLNLALADLLFALTL   96

154  PLWAVDAAVQWVFGSGLCKVAGALFNINFYAGALLLACISFDRYLNIVHA  203
 97  .PIWAASKVNGWIFGTFLCKVVSLLKEVNFYSGILLLACISVDRYLAIVHA  146

204  TQLYRRGPPARVLTLCLAVWGLCLLFALPDFIFLSAHHDERLNATHCQYN  253
147  .TRTLTQ.KRYLVKFICLSIWGLSLLLALPVLLFRRTVYSSNVSPACYEDM  195

254  FPQVG..RTALRVLQLVAGFLLPLLVMAYCYAHILAVLLVSRGQRRLRAM  301
196  .GNNTANWRMLLRILPQSFGFIVPLLIMLFCYGFTLRTLFKAHMGQKHRAM  245
```

MATCH WITH FIG. 2B

FIG. 2B

MATCH WITH FIG. 2A

```
302 RLVVVVVAFALCWTPYHLVVLVDILMDLGALARNCGRESRVDVAKSVTS 351
246 RVIFAVVLIFLLCWLPYNLVLLADTLMRTQVIQETCERRNHIDRALDATE 295

352 GLGYMHCCLNPLLYAFVGVKFRERMWMLLLRLGCPNQRGLQRQPSSSRRD 401
296 ILGILHSCLNPLIYAFIGQKFRHGLLKILAIHGLISKDSLPKDSRPSFVG 345

402 SSWSETSEA 410
346 SSSGHTSTT 354
```